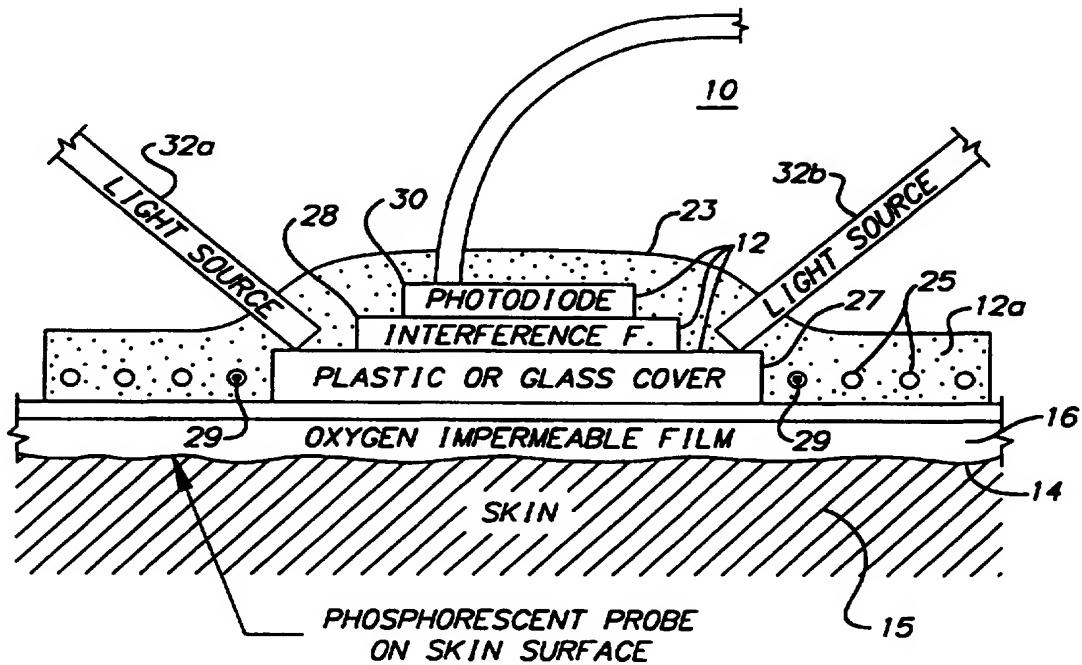


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(54) Title: DEVICE AND METHOD FOR MEASURING TISSUE OXYGENATION THROUGH THE SKIN USING OXYGEN DEPENDENT QUENCHING OF PHOSPHORESCENCE



## (57) Abstract

Apparatus and method for measuring tissue oxygenation using oxygen dependent quenching phosphorescence. The apparatus (10) comprises a phosphorescent probe (14) applied to the surface of the skin (15); an oxygen impermeable film (16) placed over the probe (14) and the apparatus (10); a light excitation means (12) for exciting the probe (14); a heating element (22) for heating the probe (14); and an analyzer circuit (26) for analyzing the output.













































